## CONTENTS OF VOLUME 24

## **Articles and Special Invited Papers**

ALBIN, J. M. P. Minima of <i>H</i> -valued Gaussian processes	788-824
ALEXANDER, KENNETH S. Boundedness of level lines for two-dimensional random fields	1653-1674
ANTAL, PETER AND PISZTORA, AGOSTON. On the chemical distance for supercritical Bernoulli percolation	1036-1048
ARENAL-GUTIÉRREZ, EUSEBIO AND MATRÁN, CARLOS. A zero-one law approach to the central limit theorem for the weighted	
bootstrap mean	532-540
sage-time moments for nonnegative stochastic processes and an application to reflected random walks in a quadrant	932-960
BENJAMINI, ITAI AND SCHRAMM, ODED. Random walks and harmonic functions on infinite planar graphs using square	
tilings	1219-1238
CLT for quadratic forms	466-490
dent's statistics	491-503
BERCOVICI, HARI AND PATA, VITTORINO. The law of large numbers for free identically distributed random variables	453-465
BERTOIN, JEAN AND WERNER, WENDELIN. Stable windings	1269-1279
BHATT, ABHAY G. AND BORKAR, VIVEK S. Occupation measures for controlled Markov processes: Characterization and opti-	
mality	1531-1562
BLOUNT, DOUGLAS. Diffusion limits for a nonlinear density dependent space-time population model	639-659
Bobkov, S. Extremal properties of half-spaces for log-concave	000 000
distributions	35-48
BORKAR, VIVEK S. AND BHATT, ABHAY G. Occupation measures	
for controlled Markov processes: Characterization and optimality	1531-1562
BOVIER, ANTON AND GAYRARD, VÉRONIQUE. An almost sure large	1001 1002
deviation principle for the Hopfield model	1444-1475
Bramson, Maury, Cox, J. Theodore and Durrett, Richard.	
Spatial models for species area curves	1727-1751
Brémaud, Pierre and Massoulié, Laurent. Stability of nonlinear Hawkes processes	1563-1588
BUNGE, JOHN. Composition semigroups and random stability	1476-1489
BURDZY, KRZYSZTOF AND WERNER, WENDELIN. No triple point of	21.0 2100
planar Brownian motion is accessible	125-147
CHAYES, L. AND SWINDLE, G. Hydrodynamic limits for one-	
dimensional particle systems with moving boundaries	559-598
CHEN, Z. Q. AND ZHAO, Z. Potential theory for elliptic systems	293-319

iv INDEX

COLLAMORE, JEFFREY F. Hitting probabilities and large devia-	0005 0050
tions	2065-2078
COX, J. THEODORE, DURRETT, RICHARD AND BRAMSON, MAURY.  Spatial models for species area curves	1727-1751
CRANSTON, M. AND MOUNTFORD, T. S. The strong law of large	1121-1101
numbers for a Brownian polymer	1300-1323
CVITANIĆ, JAKŠA AND KARATZAS, IOANNIS. Backward stochastic	1000 1020
differential equations with reflection and Dynkin games	2024-2056
DALANG, ROBERT C. AND MOUNTFORD, T. Nondifferentiability of	
curves on the Brownian sheet	182-195
DAVIS, BURGESS. Weak limits of perturbed random walks and	
the equation $Y_t = B_t + \alpha \sup\{Y_s : s \le t\} + \beta \inf\{Y_s : s \le t\} \dots$	2007-2023
DEBLASSIE, R. DANTE. Brownian motion in a wedge with vari-	
able reflection: Existence and uniqueness	148-181
DE HAAN, LAURENS AND RESNICK, SIDNEY. Second-order regular	
variation and rates of convergence in extreme-value theory	97 - 124
DEHEUVELS, PAUL AND EINMAHL, JOHN H. J. On the strong	
limiting behavior of local functionals of empirical processes	F04 F0F
based upon censored data	504 - 525
DIEBOLT, JEAN AND POSSE, CHRISTIAN. On the density of the	1104-1129
maximum of smooth Gaussian processes  Doney, R. A. Increase of Lévy processes	961-970
DONNELLY, PETER AND KURTZ, THOMAS G. A countable represen-	961-970
tation of the Fleming-Viot measure-valued diffusion	698-742
Dou, Carl and Hildebrand, Martin. Enumeration and random	000 142
random walks on finite groups	987-1000
Dubins, Lester, Feldman, Jacob, Samorodinsky, Meir and	
TSIRELSON, BORIS. Decreasing sequencies of $\sigma$ -fields and a	
measure change for Brownian motion. I	882-904
DURRETT, RICHARD, BRAMSON, MAURY AND COX, J. THEODORE.	
Spatial models for species area curves	1727 - 1751
EINMAHL, JOHN H. J. AND DEHEUVELS, PAUL. On the strong	
limiting behavior of local functionals of empirical processes	
based upon censored data	504 - 525
EINMAHL, JOHN H. J. A short and elementary proof of the main	526-531
Bahadur-Kiefer theorem	526-531
the behavior of increments of partial sums	1388-1407
EVANS, STEVEN N. AND FLEISCHMANN, KLAUS. Cluster formation	1000 1407
in a stepping-stone model with continuous, hierarchically	
structured sites	1926-1952
FELDMAN, J. &-close measures producing nonisomorphic filtra-	
tions	912-915
FELDMAN, JACOB AND TSIRELSON, BORIS. Decreasing sequences	
of $\sigma$ -fields and a measure change for Brownian motion. II	905-911

Feldman, Jacob, Samorodinsky, Meir, Tsirelson, Boris and Dubins, Lester. Decreasing sequencies of $\sigma$ -fields and a	
measure change for Brownian motion. I	882-904
parabolic SPDE	547-558
structured sites	1926-1952
two-dimensional random walk	1979-1992
deviation principle for the Hopfield model	1444-1475
Hopfield model	1809-1841
solutions of the Poisson equation	916-931
CLT for quadratic forms	466-490
dent's statistics	491-503
threshold growth dynamics on ${f Z}^2$	1752-1778
Griffeath, David and Gravner, Janko. First passage times for threshold growth dynamics on ${\bf Z}^2$	1752-1778
HARA, KEISUKE. Wiener functionals associated with joint distributions of exit time and position from small geodesic balls	825-837
HILDEBRAND, MARTIN AND DOU, CARL. Enumeration and random random walks on finite groups	987-1000
HORVÁTH, LAJOS AND SHAO, QI-MAN. Large deviations and law of the iterated logarithm for partial sums normalized by the	
largest absolute observation	1368-1387
convergence of series of stationary variables	838-856
sage-time moments for nonnegative stochastic processes and an application to reflected random walks in a quadrant	932-960
JAKUBOWSKI, ADAM. Convergence in various topologies for stochastic integrals driven by semimartingales	2141-2153
Kallenberg, Olav. On the existence of universal functional solutions to classical SDE's	196-205
KALLIANPUR, GOPINATH AND XIONG, JIE. Large deviations for a class of stochastic partial differential equations	320-345
KARATZAS, IOANNIS AND CVITANIĆ, JAKŠA. Backward stochastic differential equations with reflection and Dynkin games	2024-2056
KERSTING, G. Harmonic coordinates for diffusions in the plane	1239-1268

vi INDEX

KHOSHNEVISAN, DAVAR, LEWIS, THOMAS M. AND SHI, ZHAN. On a	
problem of Erdös and Taylor	761-787
KLEIN, IRENE AND SCHACHERMAYER, WALTER. A quantitative and	101 101
a dual version of the Halmos-Savage theorem with applica-	
tions to mathematical finance	867-881
	001-001
KLENKE, ACHIM. Different clustering regimes in systems of hi-	222 225
erarchically interacting diffusions	660-697
KÖNIG, WOLFGANG. A central limit theorem for a one-dimen-	
sional polymer measure	1012-1035
KOMOROWSKI, TOMASZ. Diffusion approximation for the advec-	
tion of particles in a strongly turbulent random environ-	
ment	346-376
KURTZ, THOMAS G. AND DONNELLY, PETER. A countable repre-	
sentation of the Fleming-Viot measure-valued diffusion	698-742
LACEY, M. T. AND HOUDRÉ, C. Spectral criteria, SLLN's and a.s.	000
convergence of series of stationary variables	838-856
LALLEY, STEVEN P. Cycle structure of riffle shuffles	49-73
	49-13
LANDIM, C., OLLA, S. AND YAU, H. T. Some properties of the	
diffusion coefficient for asymmetric simple exclusion pro-	
ceases	1779-1808
Landim, C., Sethuraman, S. and Varadhan, S. Spectral gap for	
zero-range dynamics	1871 - 1902
LANDIM, C. Hydrodynamical limit for space inhomogeneous	
one-dimensional totally asymmetric zero-range processes	599-638
LEWIS, THOMAS M., SHI, ZHAN AND KHOSHNEVISAN, DAVAR. On a	
problem of Erdös and Taylor	761-787
LICEA, CRISTINA AND NEWMAN, CHARLES M. Geodesics in two-	
dimensional first-passage percolation	399-410
LIGGETT, THOMAS M. Multiple transition points for the contact	000 410
	1675-1710
process on the binary tree	1075-1710
LOTOV, V. I. On some boundary crossing problems for Gaussian	0154 0151
random walks	2154-2171
Lyons, Russell, Pemantle, Robin and Peres, Yuval. Random	
walks on the lamplighter group	1993-2006
MARCUS, MICHAEL B. AND ROSEN, JAY. Gaussian chaos and	
sample path properties of additive functionals of symmetric	
Markov processes	1130-1177
MARCUS, MICHAEL B. AND ROSEN, JAY. Random Fourier series	
and continuous additive functionals of Lévy processes on the	
torus	1178-1218
Marton, K. Bounding $\bar{d}$ -distance by informational divergence:	
A method to prove measure concentration	857-866
MASON, DAVID M. AND EINMAHL, UWE. Some universal results	001 000
	1388-1407
on the behavior of increments of partial sums	1000-1407
MASSOULIÉ, LAURENT AND BRÉMAUD, PIERRE. Stability of nonlin-	1500 1500
ear Hawkes processes	1563-1588

MATRÁN, CARLOS AND ARENAL-GUTIÉRREZ, EUSEBIO. A zero-one law approach to the central limit theorem for the weighted	
bootstrap mean	532-540
sage-time moments for nonnegative stochastic processes and	
an application to reflected random walks in a quadrant MEYN, SEAN P. AND GLYNN, PETER W. A Liapounov bound for	932-960
solutions of the Poisson equation	916-931
MOUNTFORD, T. S. AND CRANSTON, M. The strong law of large numbers for a Brownian polymer	1300-1323
MOUNTFORD, T. S. AND PORT, S. C. Small gaps in the range of	1000-1020
stable processes	438-452
MOUNTFORD, T. AND DALANG, ROBERT C. Nondifferentiability of curves on the Brownian sheet	182-195
MUELLER, CARL. Singular initial conditions for the heat equa-	
tion with a noise term	377-398
MYTNIK, LEONID. Superprocesses in random environments NEWMAN, CHARLES M. AND LICEA, CRISTINA. Geodesics in two-	1953-1978
dimensional first-passage percolation	399-410
NEWMAN, CHARLES M. AND VOLCHAN, SERGIO B. Persistent sur-	
vival of one-dimensional contact processes in random envi-	411-421
OLLA, S., YAU, H. T. AND LANDIM, C. Some properties of the	
diffusion coefficient for asymmetric simple exclusion pro- cesses	1779-1808
Overbeck, L. Nonlinear superprocesses	743-760
PATA, VITTORINO AND BERCOVICI, HARI. The law of large num-	
bers for free identically distributed random variables	453-465
PEMANTLE, ROBIN, PERES, YUVAL AND LYONS, RUSSELL. Random walks on the lamplighter group	1993-2006
Penrose, Mathew D. The random minimal spanning tree in	1000 2000
high dimensions	1903-1925
PERES, YUVAL, LYONS, RUSSELL AND PEMANTLE, ROBIN. Random	1000 0000
walks on the lamplighter group	1993-2006
properties of the support for supercritical finite measure-	
valued diffusions	237-267
PISZTORA, AGOSTON AND ANTAL, PETER. On the chemical dis-	
tance for supercritical Bernoulli percolation	1036-1048
POROD, URSULA. The cut-off phenomenon for random reflections	74-96
PORT, S. C. AND MOUNTFORD, T. S. Small gaps in the range of stable processes	438-452
Posse, Christian and Diebolt, Jean. On the density of the	100 102
maximum of smooth Gaussian processes	1104-1129
PRITCHARD, GEOFFREY. On the convergence of scaled random	
samples	1490-1506

viii INDEX

PRUITT, WILLIAM E. AND TAYLOR, S. JAMES. Packing and cover-	
ing indices for a general Lévy process	971-986
QIAN, ZHONGMIN. On conservation of probability and the Feller	
property	280 - 292
Renz, Joachim. A note on exact convergence rates in some	
martingale central limit theorems	1616-1637
RESNICK, SIDNEY AND DE HAAN, LAURENS. Second-order regular	
variation and rates of convergence in extreme-value theory	97 - 124
ROICHMAN, YUVAL. On random random walks	1001-1011
ROSEN, JAY AND MARCUS, MICHAEL B. Gaussian chaos and sam-	
ple path properties of additive functionals of symmetric	
Markov processes	1130-1177
ROSEN, JAY AND MARCUS, MICHAEL B. Random Fourier series	
and continuous additive functionals of Lévy processes on the	
torus	1178-1218
Rosiński, Jan and Samorodnitsky, Gennady. Symmetrization	
and concentration inequalities for multilinear forms with	100 10=
applications to zero-one laws for Lévy chaos	422-437
SAMORODINSKY, MEIR, TSIRELSON, BORIS, DUBINS, LESTER AND	
FELDMAN, JACOB. Decreasing sequencies of $\sigma$ -fields and a	200 004
measure change for Brownian motion. I	882-904
SAMORODNITSKY, GENNADY AND ROSIŃSKI, JAN. Symmetrization	
and concentration inequalities for multilinear forms with	400 407
applications to zero-one laws for Lévy chaos	422-437
SCHACHERMAYER, WALTER AND KLEIN, IRENE. A quantitative and	
a dual version of the Halmos-Savage theorem with applica- tions to mathematical finance	867-881
SCHRAMM, ODED AND BENJAMINI, ITAI. Random walks and har-	901-991
monic functions on infinite planar graphs using square	
tilings	1219-1238
SCHWEIZER, MARTIN. Approximation pricing and the variance-	1219-1200
optimal martingale measure	206-236
SETHURAMAN, S., VARADHAN, S. AND LANDIM, C. Spectral gap for	200 200
zero-range dynamics	1871-1902
SETHURAMAN, SUNDER AND XU, LIN. A central limit theorem for	1011 1002
reversible exclusion and zero-range particle systems	1842-1870
SHAO, QI-MAN AND HORVÁTH, LAJOS. Large deviations and law	1012 1010
of the iterated logarithm for partial sums normalized by the	
largest absolute observation	1368-1387
SHAO, QI-MAN AND YU, HAO. Weak convergence for weighted	
empirical processes of dependent sequences	2098-2127
SHEU, YUAN-CHUNG. On states of exit measures for superdiffu-	
sions	268-279
SHI, ZHAN, KHOSHNEVISAN, DAVAR AND LEWIS, THOMAS M. On a	
problem of Erdös and Taylor	761-787

INDEX ix

SHIELDS, PAUL C. AND MARTON, KATALIN. Entropy and the con-	
sistent estimation of joint distributions	541-545
STACEY, A. M. The existence of an intermediate phase for the	
contact process on trees	1711-1726
SWINDLE, G. AND CHAYES, L. Hydrodynamic limits for one-	FF0 F00
dimensional particle systems with moving boundaries	559-598
SZNITMAN, ALAIN-SOL. Distance fluctuations and Lyapounov ex-	1507 1500
ponents	1507-1530 1-34
TALAGRAND, MICHEL. Majorizing measures: The generic chain-	1-54
ing	1049-1103
TAYLOR, S. JAMES AND PRUITT, WILLIAM E. Packing and cover-	1049-1105
ing indices for a general Lévy process	971-986
THORISSON, HERMANN. Transforming random elements and	011 000
shifting random fields	2057-2064
TOTH, BALINT. Generalized Ray-Knight theory and limit theo-	
rems for self-interacting random walks on $\mathbb{Z}^1$	1324-1367
TSIRELSON, BORIS AND FELDMAN, JACOB. Decreasing sequences	
of $\sigma$ -fields and a measure change for Brownian motion. II	905-911
TSIRELSON, BORIS, DUBINS, LESTER, FELDMAN, JACOB AND	
Samorodinsky, Meir. Decreasing sequencies of $\sigma$ -fields and	
a measure change for Brownian motion. I	882-904
UCHIYAMA, KÔHEI AND FUKAI, YASUNARI. Potential kernel for	
two-dimensional random walk	1979-1992
VAN DER VAART, AAD. New Donsker classes	2128-2140
VARADHAN, S., LANDIM, C. AND SETHURAMAN, S. Spectral gap for	
zero-range dynamics	1871-1902
VERZANI, JOHN. On the convex hull of planar Brownian snake	1280-1299
VITALE, RICHARD A. The Wills functional and Gaussian pro-	0170 0170
Volgram Capaca P. and Namerin Capaca M. Possistant and	2172-2178
Volchan, Sergio B. and Newman, Charles M. Persistent survival of one-dimensional contact processes in random envi-	
ronments	411-421
WERNER, WENDELIN AND BERTOIN, JEAN. Stable windings	1269-1279
WERNER, WENDELIN AND BURDZY, KRZYSZTOF. No triple point of	1200 1210
planar Brownian motion is accessible	125-147
XIONG, JIE AND KALLIANPUR, GOPINATH. Large deviations for a	
class of stochastic partial differential equations	320-345
XU, LIN AND SETHURAMAN, SUNDER. A central limit theorem for	
reversible exclusion and zero-range particle systems	1842-1870
YAU, H. T., LANDIM, C. AND OLLA, S. Some properties of the	
diffusion coefficient for asymmetric simple exclusion pro-	
cesses	1779-1808
Yu, Hao and Shao, Qi-Man. Weak convergence for weighted	
empirical processes of dependent sequences	2098-2127

INDEX

Yu, Hao. A strong invariance principle for associated se-	
quences	2079-2097
ZHANG, CUN-HUI. Strong law of large numbers for sums of products	1589-1615
ZHANG, YU. The complete convergence theorem of the contact	1000 1010
process on trees	1408-1443
Zhao, Z. and Chen, Z. Q. Potential theory for elliptic systems	293-319
Book Reviews	
Bradley, R. E. Review of Intersections of Random Walks by	
G. F. Lawler	1638-1642
by D. W. Stroock	1643-1646
by Mark A. Pinsky	1647-1652
Corrections	
MARTON, KATALIN AND SHIELDS, PAUL C. Entropy and the con-	
sistent estimation of joint distributions	541-545
SHIELDS, PAUL C. AND MARTON, KATALIN. Entropy and the con-	F41 F4F
sistent estimation of joint distributions	541 - 545

